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**PATENT ABSTRACTS OF JAPAN**(11)Publication number : **06-157955**(43)Date of publication of  
application : **07.06.1994**(51)Int.Cl. **C09D 11/00**(21)Application number : **05-223317** (71) Applicant : **E I DU PONT DE NEMOURS & CO**(22)Date of filing : **08.09.1993** (72)Inventor : **HICKMAN MARK S  
JOHNSON LOREN E  
STOFFEL JOHN  
ASKELAND RONALD A  
HUNT CATHERINE B  
MATRICK HOWARD  
PRASAD KESHA VA A  
RICH JOHN T  
SLEVIN LEONARD**

(30)Priority

Priority number : **92** Priority date : **08.09.1992** Priority country : **US**(54) **AQUEOUS INK COMPOSITION CONTAINING ANTI-CURL AGENT**

(57)Abstract:

**PURPOSE:** To obtain an aqueous ink composition which reduces or removes paper curls in plainpaper printed elements at a low cost without adversely affecting the storage stability, decap property or the print quality, which comprises an aqueous carrier medium, a colorant and an anti-curl agent.

**CONSTITUTION:** This composition contains (A) an aqueous carrier medium (preferably a mixture of an water-soluble organic solvent having at least two hydroxide groups such as diethylene glycol or the like and water), (B) a colorant (preferably a pigment dispersion or a dye) and (C) an anti-curl agent (preferably 1,3-diols or the like of 2,2-dimethyl-1,3-propanediol or the like). The amount of component C blended is preferably from 15 to 30 (wt.)% against the total weight of the ink. When an organic pigment is used as component B, components A and B are preferably blended at ratios of from 84 to 99.8% and from 0.1 to 8%, respectively, against the total amount of the ink, and when a dye is used, from 80 to 99.8% and from 0.1 to 50%, respectively.